

### **ABSTRACT OF THE INVENTION**

On the case of receiving data frame from a station, the method of the present invention instructs the repeater to replace the content of the receiver address field by the address of the bridge when receiving the frame transmitted from the station, and then forwards the frames to the bridge. On the case of receiving a data frame transmitted from the bridge, the repeater can replace the content of transmitter address field by the address of the repeater itself, and then forwards the data frame to the station.